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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Yang et al.

Serial No.: 10/768,886

Art Unit: 1638

Filed: January 31, 2004, 2003

Examiner: Vinod Kumar

For: Mitogen-Activated Protein Kinase
And Methods for Use to Enhance Biotic
Abiotic Stress Tolerance in Plants

Atty Docket No.: UAF-03-04

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.56 AND § 1.97**

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

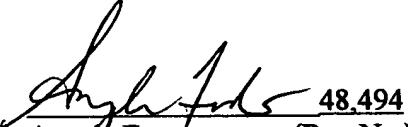
In accordance with the duty of disclosure under 37 C.F.R. § 1.56 and § 1.97 to inform the Patent and Trademark Office of all references coming to the attention of each individual associated with the filing or prosecution of the subject application, which are or may be material to the patentability of any claim of the application, Attorney for Applicants hereby directs the Examiner's attention to the references (A1-A18) listed on the attached PTO 1449 Form

Identification of the above-listed references is not construed as an admission of Applicants or Attorney for Applicants, that such references are available as "prior art" against the subject application. Applicants request that the Examiner record in the file history of the above-captioned application.

Pursuant to 37 C.F.R. § 197, since the enclosed Information Disclosure Statement and references are being filed prior to any Official Action, no fee is due. Thank you for your assistance in the matter.

Respectfully submitted,

Date: December 13, 2005



48,494
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STATEMENT BY APPLICANT

(Use as many sheets as necessary)

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of

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Complete if Known

Application Number	10/768,886
Filing Date	January 31, 2004
First Named Inventor	Yinong Yang
Art Unit	1638
Examiner Name	Vinod Kumar
Attorney Docket Number	UAF-03-14

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	A1	Agrawal et al. 2002 Isolation of novel rice multiple stress responsive MAP kinase gene OSMSRMK2 whose mRNA accumulates rapidly in response to environmental cues. BBRC 294:1009	
	A2	Asai et al. 2002 MAP kinase signalling cascade in Arabidopsis innate immunity. Nature 415:977	
	A3	Frye et al. 2001 Negative regulation of defense responses in plants by a conserved MAPK kinase. PNAS 98:373	
	A4	Hardin et al. 1998 Molecular cloning and characterization of maize ZmMEK1 a protein kinase with a catalytic domain homologous to mitogen and stress-activated .. Planta 206:577	
	A5	Huang et al. 2002 Expression of Oryza sativa MAP kinase gene is developmentally regulated and stress-responsive. Physio. Plant. 114:572	
	A6	Jonak et al. 1996 Stress signaling plants: A mitogen-activated protein kinase pathway is activated by cold and drought. PNAS 93:11274	
	A7	Kiegerl et al. 2000 SIMKK a Mitogen-Activated Protein Kinase (MAPK) Kinase is a Specific Activator of the Salt Stress-Induced MAPK, SIMK. Plant Cell 12:2247	
	A8	Knetsch et al. 1996 Abscisic Acid Induces Mitogen-Activated Protein Kinase Activation in Barley Aleurone Protoplasts. Plant Cell 8:1061	
	A9	Mikotjaczik et al. 2000 Osmotic Stress Induces rapid activation of a Salicylic Acid-Induced Protein Kinase and a Homolog of Protein Kinase ASK1 in Tobacco.. Plant Cell 12:165	
	A10	Seo et al. 1999 Jasmonic-based wound signal transduction requires activation of WIPK, a tobacco mitogen-activated protein kinase. Plant Cell 11:289	

Examiner Signature	Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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Sheet	2	of	2	Attorney Docket Number	UAF-03-14

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	A11	Song et al. 2002 OsBIMK1, a rice MAP kinase gene involved in disease resistance responses. <i>Planta</i> 215:997	
	A12	Wen et al. 2002 Two novel mitogen-activated protein signaling components, OSMEK1 and OsMAP1 are involved in a moderate low-temperature ... <i>Plant Physio.</i> 129:1880	
	A13	Yang et al. 2001 Activation of a mitogen-activated protein kinase pathway is involved in disease resistance in tobacco. <i>PNAS</i> 98:741	
	A14	Zhang et al. 1997 Salicylic Acid Activates a 48-kD MAP Kinas in Tobacco. <i>Plant Cell</i> 9:809	
	A15	Zhang et al. 1998 The tobacco wounding-activated mitogen-activated kinase is encoded by SIPK. <i>PNAS</i> 95:7225	
	A16	Zhang et al. 1998 Resistance gene N-mediated de novo synthesis and activation of a tobacco mitogen-activated protein kinase by tobacco mosaic virus infection. <i>PNAS</i> 95:7433	
	A17	Zhang et al. 2001 MAPK cascades in plant defense signaling. <i>Trends in Plant Science.</i> 6:(11)520	
	A18	Zhang et al. 2001 Activation of Salicylic Acid-Induced Protein Kinase, a Mitogen-Activated Protein Kinase, Induces Multiple Defense Responses in Tobacco. <i>Plant Cell</i> 13:1877	

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